

Appln No. 10/662,916

Amdt date August 11, 2004

Reply to Office action of May 11, 2004

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Amend claims 1 and 8 and add claims 22 and 23 as follows:

1. (Currently Amended) A burner comprising:  
a concrete board;  
a ceramic board embedded in the concrete board; and  
at least one port formed through at least one of said concrete and ceramic boards;  
a pan comprising a peripheral surface, wherein a portion of the peripheral surface is coupled to the concrete board, wherein the concrete board and pan define an enclosed burner and wherein the concrete board defines an exposed surface of the burner; and  
an inlet on said burner for receiving a fuel.
2. (Original) The burner as recited in claim 1 wherein a surface of the ceramic board is exposed.
3. (Original) The burner as recited in claim 1 wherein the peripheral surface is embedded into the concrete board.

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4. (Original) The burner as recited in claim 1 wherein the concrete board comprises ports formed through the concrete board.

5. (Original) The burner as recited in claim 1 wherein the ceramic board comprises ports formed through the ceramic board thickness.

6. (Original) The burner as recited in claim 5 wherein the concrete board comprises ports formed through the concrete board and wherein the ports formed through the ceramic board are aligned with the ports formed through the concrete board.

7. (Original) The burner as recited in claim 6 wherein a surface of the ceramic board is exposed.

8. (Currently Amended) A burner comprising:  
a refractory board;  
a ceramic board embedded in the refractory board; ~~and~~  
at least one port formed through at least one of said  
refractory and ceramic boards;  
a pan comprising a peripheral surface, wherein a portion of the peripheral surface is coupled to the refractory board, wherein the refractory board and pan define an enclosed burner and wherein the refractory board defines an exposed surface of the burner; and  
an inlet on said burner for receiving a fuel.

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9. (Original) The burner as recited in claim 8 wherein a surface of the ceramic board is exposed.

10. (Original) The burner as recited in claim 8 wherein the peripheral surface is embedded into the refractory board.

11. (Original) The burner as recited in claim 8 wherein the refractory board comprises ports formed through the refractory board.

12. (Original) The burner as recited in claim 8 wherein the ceramic board comprises ports formed through the ceramic board thickness.

13. (Original) The burner as recited in claim 12 wherein the refractory board comprises ports formed through the refractory board and wherein the ports formed through the ceramic board are aligned with the ports formed through the refractory board.

14. (Original) The burner as recited in claim 13 wherein a surface of the ceramic board is exposed.

15. (Original) The burner as recited in claim 14 wherein the refractory board comprises a refractory adhesive.

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16. (Original) A method for making a burner comprising:

providing a mold having an inner surface having a desired shape and having at least a protrusion;

placing a ceramic board having at least an opening in the mold such that the protrusion penetrates the opening;

pouring a refractory material in the mold;

providing a burner pan comprising a peripheral surface;

embedding the peripheral surface of the pan in the refractory material;

curing the refractory material forming an enclosed burner; and

removing the mold.

17. (Original) A method as recited in claim 16 wherein the refractory material is concrete.

18. (Original) A method a recited in claim 16 wherein the refractory material comprises a refractory adhesive.

19. (Original) A method for making a burner comprising:

providing a mold having an inner surface having a desired shape;

placing a ceramic board having in the mold;

pouring a refractory material in the mold;

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providing a burner pan comprising a peripheral surface;

embedding the peripheral surface of the pan in the refractory material;

curing the refractory material forming an enclosed burner; and

removing the mold.

20. (Original) A method as recited in claim 19 wherein the refractory material is concrete.

21. (Original) A method a recited in claim 19 wherein the refractory material comprises a refractory adhesive.

22. (New) The burner as recited in claim 1 wherein the inlet receives a gas.

23. (New) The burner as recited in claim 8 wherein the inlet receives a gas.